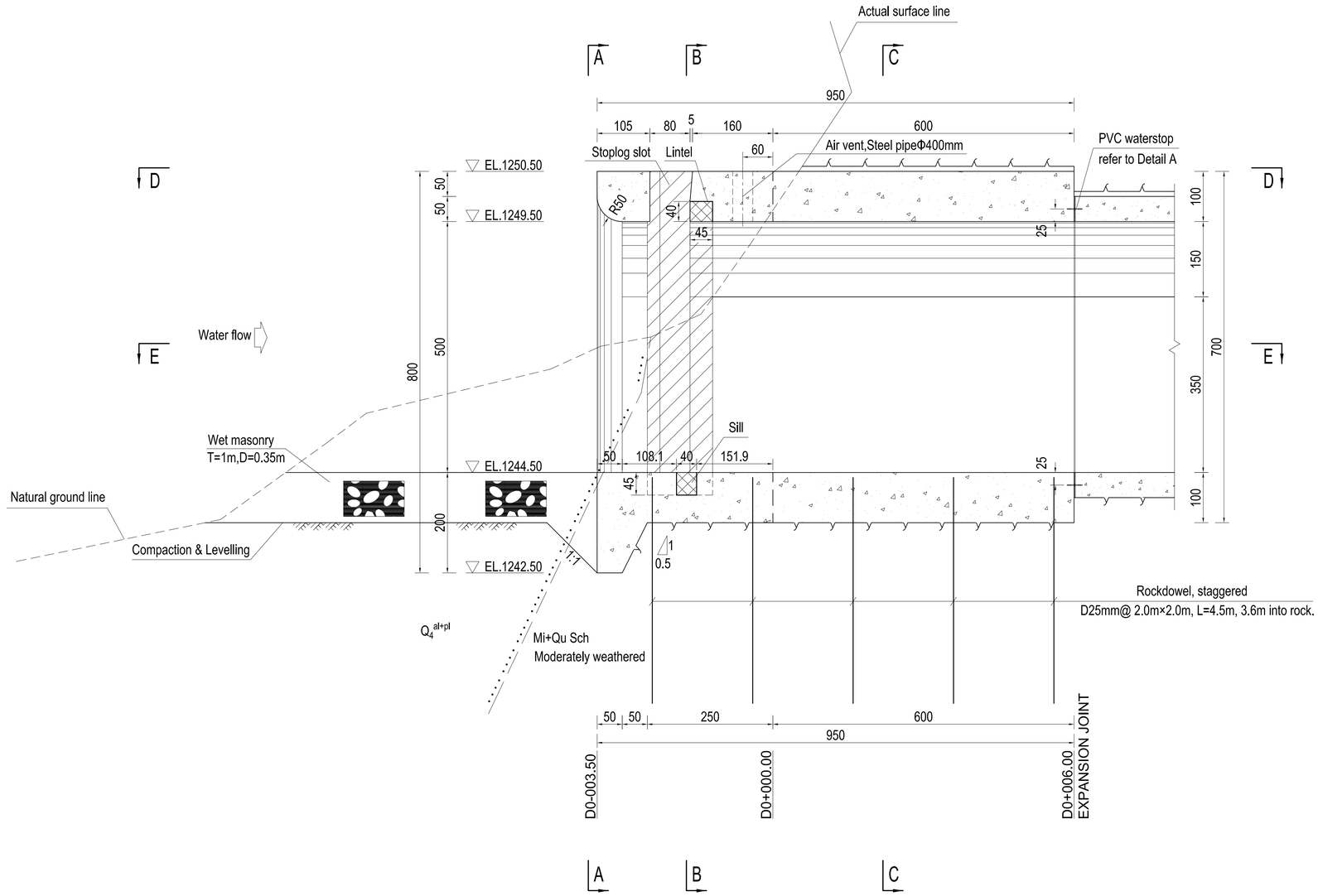
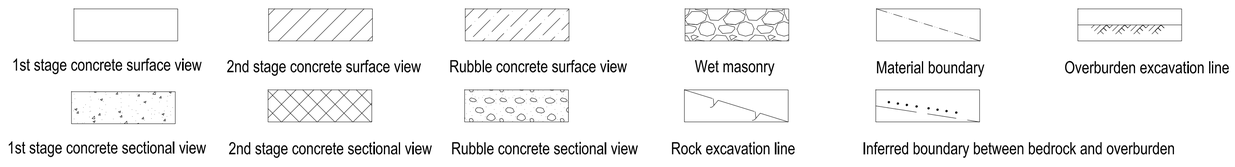
PROFILE OF INLET STRUCTURE

scale 1:50



LEGEND :


1st stage concrete surface view
2nd stage concrete surface view
Rubble concrete surface view
Wet masonry
Material boundary
Overburden excavation line
1st stage concrete sectional view
2nd stage concrete sectional view
Rubble concrete sectional view
Rock excavation line
Inferred boundary between bedrock and overburden

1:50 0 0.5 1 1.5 2 2.5m

NOTE

1. This set of drawings are the outline drawing of inlet structure of diversion tunnel.
2. The coordinates, chainages & elevations are measured in meters, all dimensions are in centimeters unless otherwise stated.
3. Symbol description:
   A-Line is the design excavation line.
   B-Line is the overbreak line.
   D denotes deformed bar, yield strength of the deformed bar is 500MPa.
4. The 1st stage concrete grade is class E: cylinder specified compressive strength is 24MPa at 28days.
   The 2nd stage concrete grade is class F: cylinder specified compressive strength is 35MPa at 28days.
   The rubble concrete grade is class C: cylinder specified compressive strength is 12MPa at 28days.
5. The embedded parts in the drawings is just for sketched only, the actual size and location please refer to the relative mechanical drawings.
6. When the position of the joint bars and the embedded parts interfere with each other, the position of the joint bars can be adjusted appropriately.
7. Piror to 2nd stage concrete placing, surface of 1st stage concrete should be roughed.

REFERENCE DRAWINGS

UT1-C-010-CVL-DG-42001	Arrangement Drawing of Diversion Tunnel
UT1-H-300-LPC-DG-01004	Diversion Tunnel Stoplog 1st Stage Embedded Parts

SYMBOL AND LEGEND

FOR APPROVAL

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PROJECT TITLE

Upper Trishuli-1 HEP (216MW)

OWNER

NWEDC NEPAL WATER AND ENERGY DEVELOPMENT CO. PVT. LTD.

OWNER'S ENGINEER

TRACTEBEL ENGIE jade CONSULT

CONTRACTOR

DOOSAN Doosan Heavy Industries & Construction

DRAWING TITLE

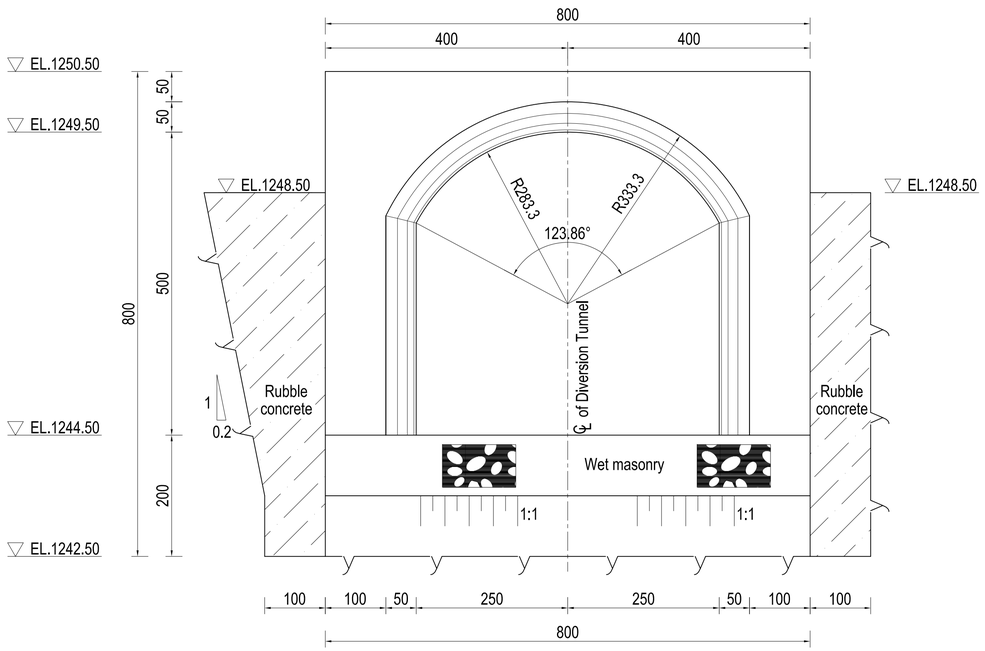
Outline Drawing of Inlet Structure of Diversion Tunnel

INDEX	DRAWING NUMBER	SHEET NO.	REV. NO.
A	UT1-C-010-CVL-DG-42004-1	1 OF 4	B

A1 (594 x 841 MM)

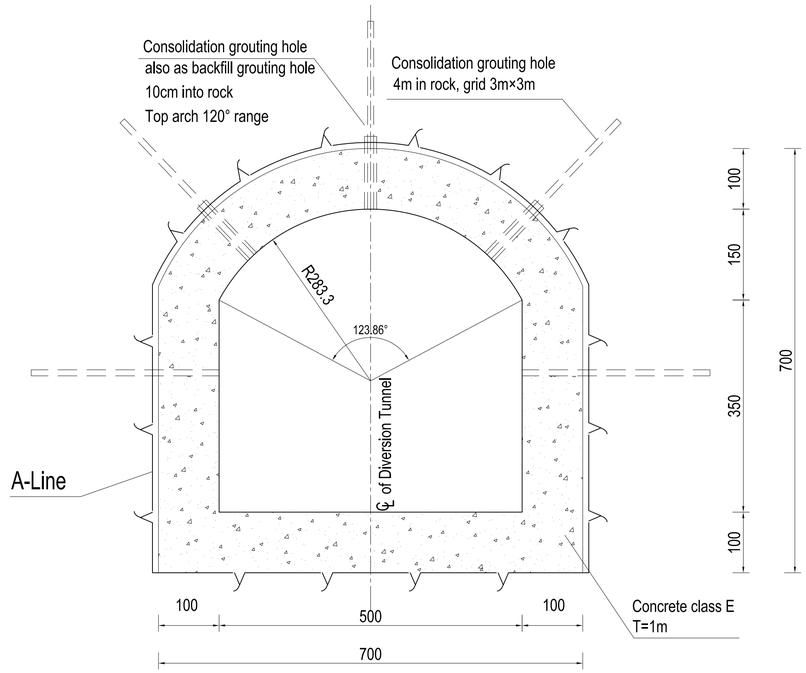
FRONT VIEW A-A

scale 1:50



SECTION C-C

scale 1:50

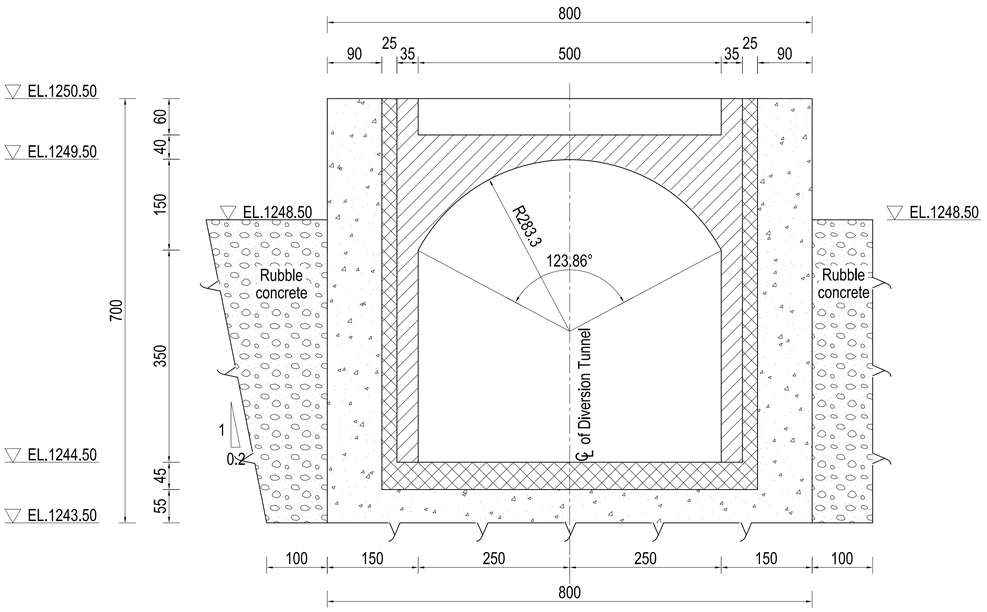


Note:

1. The initial backfill grouting pressure is 0.2~0.3MPa;
2. The initial consolidation grouting pressure is 0.3~0.5MPa.
3. Grouting pressure can be adjusted according to the actual situation on site.

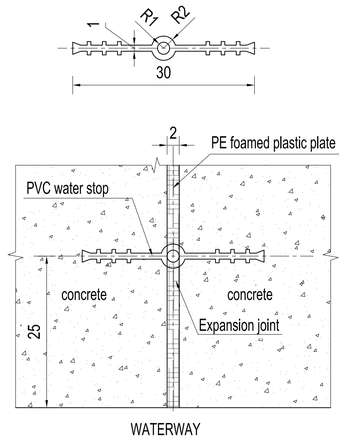
SECTION B-B

scale 1:50



DETAIL A(PVC WATERSTOP)

scale 1:5



1:50 0 0.5 1 1.5 2 2.5m

1:5 0 0.05 0.15 0.25m

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REFERENCE DRAWINGS

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UT1-H-300-LPC-DG-01004	Diversion Tunnel Stoplog 1st Stage Embedded Parts

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OWNER'S ENGINEER

TRACTEBEL ENGIE

jade CONSULT

CONTRACTOR

DOOSAN Doosan Heavy Industries & Construction

DRAWING TITLE

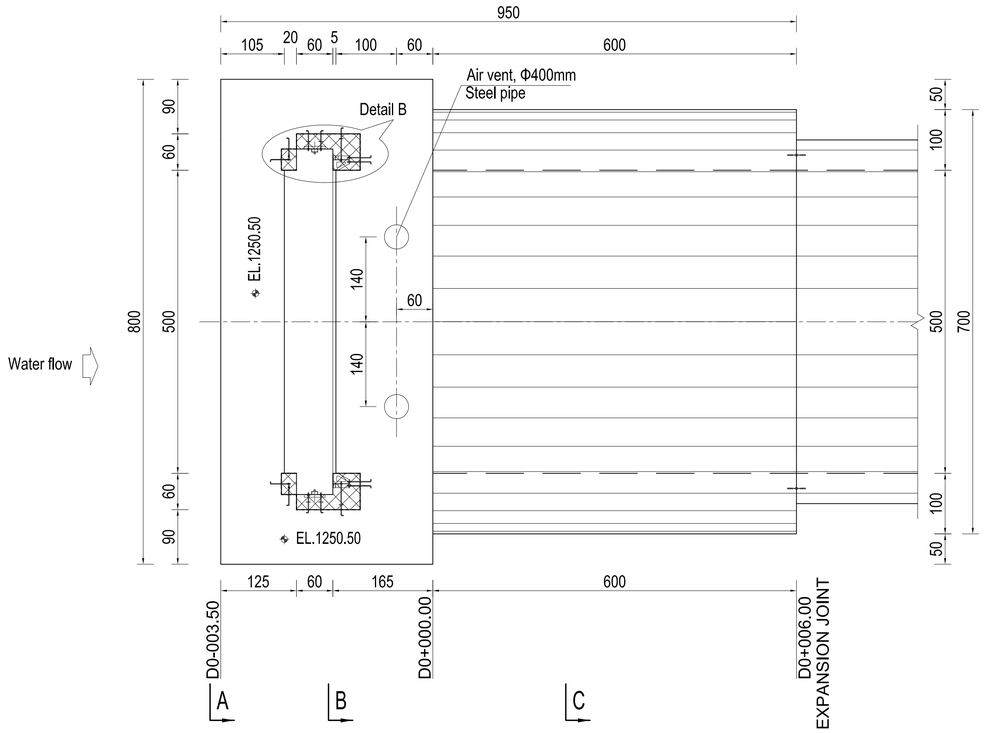
Outline Drawing of Inlet Structure of Diversion Tunnel

INDEX	DRAWING NUMBER	SHEET NO.	REV. NO.
A	UT1-C-010-CVL-DG-42004-2	2 OF 4	B

A1 (594 x 841 MM)

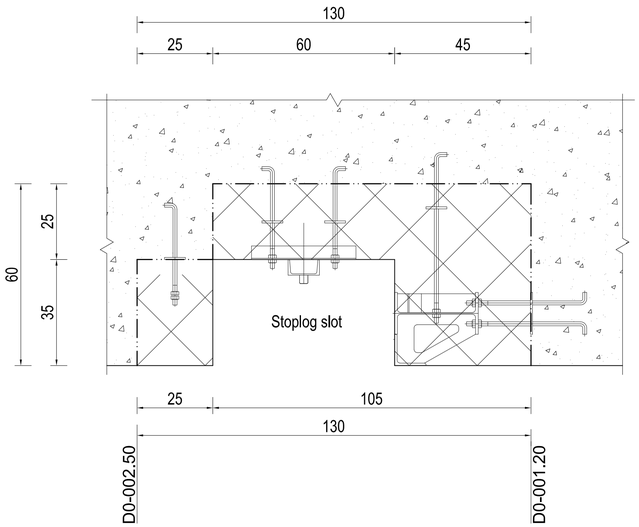
TOP VIEW D-D

scale 1:50



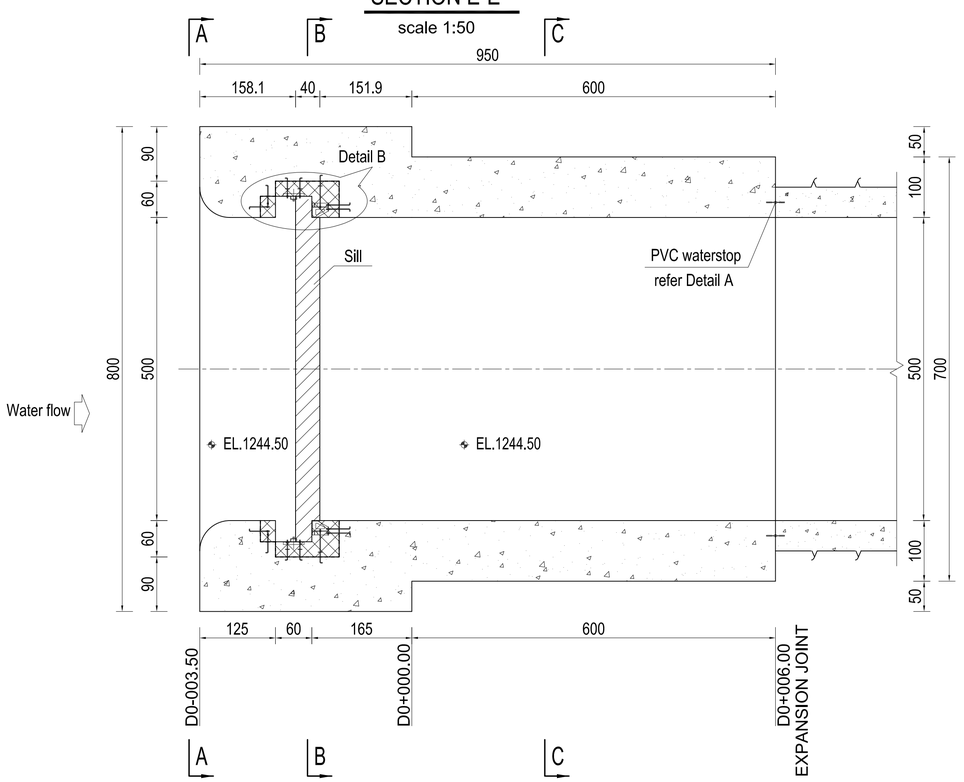
DETAIL B

scale 1:10



SECTION E-E

scale 1:50



1:50 0 0.5 1 1.5 2 2.5m

1:10 0 0.1 0.3 0.5m

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REFERENCE DRAWINGS

UT1-C-010-CVL-DG-42001	Arrangement Drawing of Diversion Tunnel
UT1-H-300-LPC-DG-01004	Diversion Tunnel Stoplog 1st Stage Embedded Parts

SYMBOL AND LEGEND

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PROJECT TITLE

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OWNER

NWEDC NEPAL WATER AND ENERGY DEVELOPMENT CO. PVT. LTD.

OWNER'S ENGINEER

TRACTEBEL ENGIE jade CONSULT

CONTRACTOR

DOOSAN Doosan Heavy Industries & Construction

DRAWING TITLE

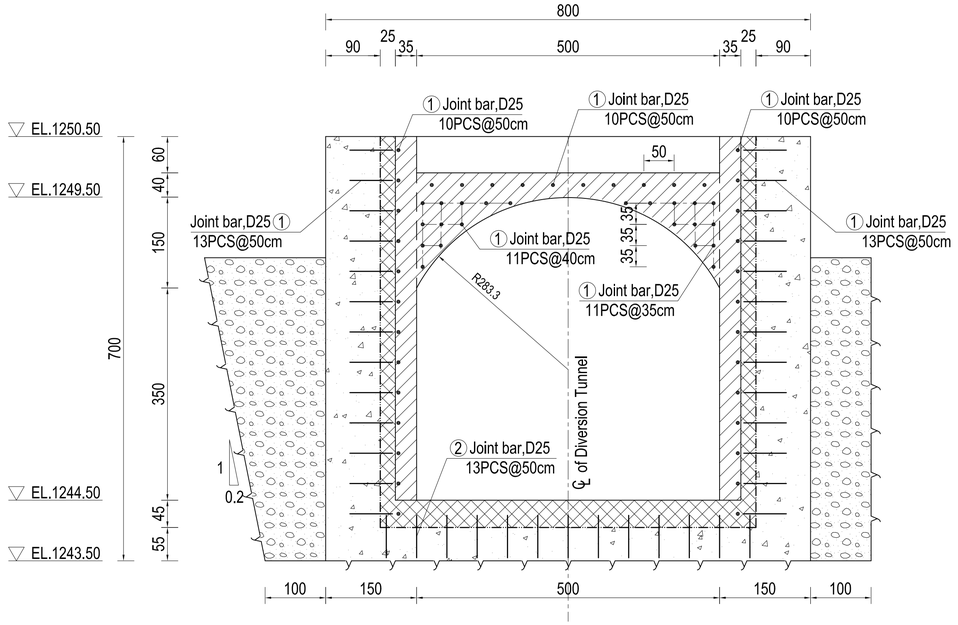
Outline Drawing of Inlet Structure of Diversion Tunnel

INDEX	DRAWING NUMBER	SHEET NO.	REV. NO.
A	UT1-C-010-CVL-DG-42004-3	3 OF 4	B

A1 (594 x 841 MM)

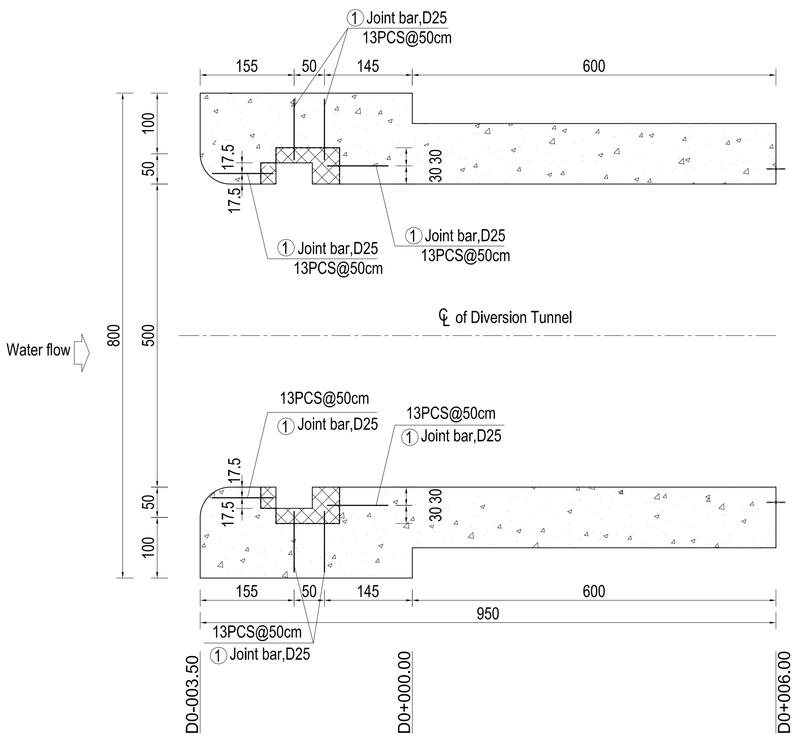
JOINT BAR OF SECTION B-B

scale 1:50



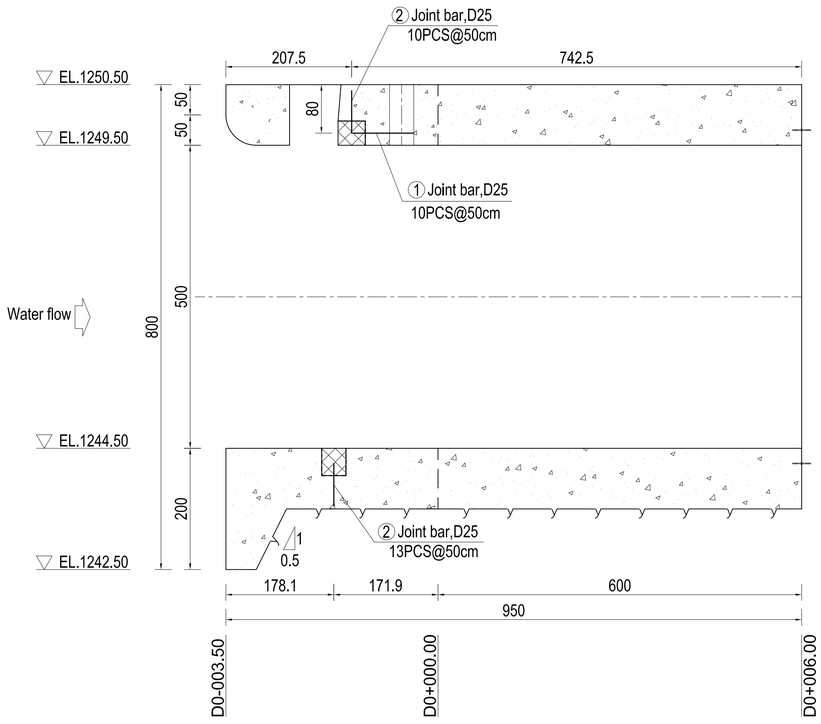
JOINT BAR OF SECTION E-E

scale 1:50



JOINT BAR OF LINTEL AND SILL BEAM

scale 1:50



SECONDARY CONCRETE JOINT BAR

Item	No.	Dia. (mm)	Type (cm)	Each Length (cm)	PCS	Total Length (m)	Remarks
Joint bar	①	D25	80 (1st stage concrete) + 20 (2nd stage concrete)	100	136	136	Spacing As Specfied
	②	D25	50 (1st stage concrete) + 20 (2nd stage concrete)	70	23	16.1	Spacing As Specfied

BOQ

No.	Description	Unit	Qty.	Remark
1	1st stage concrete	m^3	234	
2	2nd stage concrete	m^3	10	
3	-Drilling grout hole for consolidation grouting	m	40	L=4m
	-Consolidation grouting	ton		Actual quantity
4	-Backfill grouting	m^2	50	
5	PVC water stop	m	22	
6	PE foamed plastic plate	m^2	10	

1:50 0 0.5 1 1.5 2 2.5m

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INDEX	DRAWING NUMBER	SHEET NO.	REV. NO.
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A1 (594 x 841 MM)